AMENDMENTS TO THE CLAIMS

1.   (Previously Presented) A method for creating a file information database comprising:

  scanning a storage server having a directory structure;

  collecting data regarding the directory structure;

  for each directory of the directory structure, determining whether each member of the directory is a file or subdirectory;

  using a first thread to:

    traverse the directory structure in a depth first search (DFS) order; and

    assign a first unique identification (ID) number to a first determined directory and a second unique ID number to a second determined directory in the directory structure, wherein the ID numbers are assigned while the directory structure is being traversed in the DFS order, and wherein the ID numbers correspond to the DFS order in which the determined directories are traversed;

  using a second thread to examine the determined files; and

  writing a data structure including the first ID number, the second ID number and a relation between the first directory and the second directory.

2.   (Original) The method of claim 1, wherein scanning and collecting comprise scanning and collecting by using an agent separate from the storage server.

3.   (Original) The method of claim 2, wherein the agent has a first file system, and the storage server has a second file system, and wherein the first file system is different from the second file system.

4.   (Previously Presented) The method of claim 1, wherein the relation indicates that the first directory is an immediate child of the second directory.

5.   (Original) The method of claim 1, wherein assigning further comprises assigning the ID numbers while collecting the data.

6.   (Original) The method of claim 1, wherein writing the data structure further comprises writing the data structure to a database server.

7.   (Previously Presented) The method of claim 4, further comprising:

receiving a request to determine the parent of the first directory; and

referencing the relation between the first directory and the second directory of the data structure to determine the parent of the first directory.

8.   (Previously Presented) The method of claim 4, further comprising:

receiving a request to determine an immediate child of the second directory;

searching the data structure to find any relation, including the relation between the first directory and the second directory, which indicates that the second directory is a parent in said relation; and

determining the immediate child of the second directory based on said any relation.

9.   (Previously Presented) The method of claim 4, further comprising:

receiving a request to determine a set of ID numbers of every child of a third directory in the directory structure, wherein the third directory is assigned a third ID number;

determining a fourth ID number of a sibling of the third directory; and

determining the set of ID numbers between the third ID number and the fourth ID number.

10.   (Currently Amended) A machine readable medium having stored thereon executable program code which, when executed, causes a machine to perform a method for creating a file information database, the method comprising:

    scanning a storage server having a directory structure;

    collecting data regarding the directory structure;

    for each directory of the directory structure, determining whether each member of
        the directory is a file or subdirectory;

    using a first thread to:

        traverse the directory structure in a depth first search (DFS) order; and

        assign a first unique identification (ID) number to a first determined
            directory and a second unique ID number to a second determined
            directory in the directory structure, wherein the ID numbers are
            assigned while the directory structure is being traversed in the DFS
            order, and wherein the ID numbers depend on the DFS order in
            which the determined directories are traversed;

    using a second thread to examine the determined files; and

    writing a data structure including:

        the first ID number,

        the second ID number,

        <u>in association with the first ID number, an indication of</u> ~~and~~ a relation
            between the first directory and the second directory.

11.   (Original) The machine readable medium of claim 10, wherein scanning and collecting comprise scanning and collecting using an agent separate from the storage server.

12.   (Original)   The machine readable medium of claim 11, wherein the agent has a first file system, and the storage server has a second file system, and wherein the first file system is different from the second file system.

13.   (Previously Presented) The machine readable medium of claim 10, wherein the relation indicates that the first directory is an immediate child of the second directory.

14.   (Original) The machine readable medium of claim 10, wherein assigning further comprises assigning the ID numbers while collecting the data.

15.   (Original) The machine readable medium of claim 10, wherein writing the data structure further comprises writing the data structure to a database server.

16.   (Currently Amended) The machine readable medium of claim 13, further comprising:

receiving a request to determine the parent of the first directory; and

referencing the relation between the first directory and the second directory ~~of the data structure~~ to determine the parent of the first directory.

17.   (Previously Presented) The machine readable medium of claim 13, further comprising:

receiving a request to determine an immediate child of the second directory;

searching the data structure to find any relation, including the relation between the first directory and the second directory, which indicates that the second directory is a parent in said relation; and

determining the immediate child of the second directory based on said any relation.

18.   (Previously Presented) The machine readable medium of claim 13, further comprising:

        receiving a request to determine a set of ID numbers of every child of a third directory in the directory structure, wherein the third directory is assigned a third ID number;

        determining a fourth ID number of a sibling of the third directory; and

        determining the set of ID numbers between the third ID number and the fourth ID number.

19-27. (Canceled)

28.   (Withdrawn)

29-31. (Canceled)

32.   (Withdrawn)

33.   (Canceled)

34-36. (Withdrawn)

37-38. (Canceled)

39.   (Previously Presented) A method for creating a file information database comprising:

        scanning a storage server having a directory structure;

        for each directory of the directory structure, determining whether each member of the directory is a file or subdirectory;

using a first thread to assign a first unique identification (ID) number to a first determined directory and a second unique ID number to a second determined directory in the directory structure according to a depth first search (DFS) order, wherein the ID numbers are assigned while the directory structure is being traversed in the DFS order, and wherein the ID numbers are chronologically assigned in numerical order based on the DFS order in which the directory structure is traversed;

using a second thread to examine the determined files; and

writing a data structure including the first ID number, the second ID number and a relation between the first directory and the second directory, wherein the data structure is traversable based on the ID numbers to determine relationships between directories of the storage server.

40.   (Previously Presented) The method of claim 1, wherein a top level directory of the directory structure is assigned an ID of "0" (zero).

41- 46. (Withdrawn)